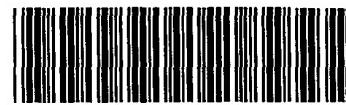RECEIVED

MAY 1 6 2002

TECH CENTER 1600/2900

Page 1 of 9

#11   1638

ENTERED   1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/722,377

DATE: 05/09/2002 P. 6
TIME: 14:19:20

Input Set : A:\620_58.app
Output Set: N:\CRF3\05092002\I722377.raw

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 4 <110> APPLICANT: Schulze-Lefert, Paul MJ
 5        Panstruga, Ralph
 6        Buschges, Rainer
 8 <120> TITLE OF INVENTION: Polynucleotide and its use for modulating a defence
 9        response in plants
11 <130> FILE REFERENCE: 620-58
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/722,377
C--> 14 <141> CURRENT FILING DATE: 2000-11-28
16 <150> PRIOR APPLICATION NUMBER: PCT/GB97/02046
17 <151> PRIOR FILING DATE: 1997-07-29
19 <150> PRIOR APPLICATION NUMBER: GB 9615879.5
20 <151> PRIOR FILING DATE: 1996-07-29
22 <150> PRIOR APPLICATION NUMBER: GB 9622626.1
23 <151> PRIOR FILING DATE: 1996-10-30
25 <150> PRIOR APPLICATION NUMBER: GB 9704789.8
26 <151> PRIOR FILING DATE: 1997-03-07
28 <160> NUMBER OF SEQ ID NOS: 79
30 <170> SOFTWARE: PatentIn Ver. 2.1
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 533
34 <212> TYPE: PRT
35 <213> ORGANISM: Hordeum vulgare
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41 Ser Trp Ala Val Ala Val Val Phe Ala Ala Met Val Leu Val Ser Val
42               20                  25                  30
44 Leu Met Glu His Gly Leu His Lys Leu Gly His Trp Phe Gln His Arg
45           35                  40                  45
47 His Lys Lys Ala Leu Trp Glu Ala Leu Glu Lys Met Lys Ala Glu Leu
48       50                  55                  60
50 Met Leu Val Gly Phe Ile Ser Leu Leu Leu Ile Val Thr Gln Asp Pro
51 65                  70                  75                  80
53 Ile Ile Ala Lys Ile Cys Ile Ser Glu Asp Ala Ala Asp Val Met Trp
54               85                  90                  95
56 Pro Cys Lys Arg Gly Thr Glu Gly Arg Lys Pro Ser Lys Tyr Val Asp
57           100                 105                 110
59 Tyr Cys Pro Glu Gly Lys Val Ala Leu Met Ser Thr Gly Ser Leu His
60           115                 120                 125
62 Gln Leu His Val Phe Ile Phe Val Leu Ala Val Phe His Val Thr Tyr
63       130                 135                 140
65 Ser Val Ile Thr Ile Ala Leu Ser Arg Leu Lys Met Arg Thr Trp Lys
66 145                 150                 155                 160
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RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/722,377   TIME: 14:19:20

Input Set : A:\620_58.app
Output Set: N:\CRF3\05092002\I722377.raw

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69              165             170             175
71  Pro Ala Arg Phe Arg Phe Thr His Gln Thr Ser Phe Val Lys Arg His
72              180             185             190
74  Leu Gly Leu Ser Ser Thr Pro Gly Ile Arg Trp Val Val Ala Phe Phe
75              195             200             205
77  Arg Gln Phe Phe Arg Ser Val Thr Lys Val Asp Tyr Leu Thr Leu Arg
78      210             215             220
80  Ala Gly Phe Ile Asn Ala His Leu Ser Gln Asn Ser Lys Phe Asp Phe
81  225             230             235             240
83  His Lys Tyr Ile Lys Arg Ser Met Glu Asp Asp Phe Lys Val Val Val
84              245             250             255
86  Gly Ile Ser Leu Pro Leu Trp Gly Val Ala Ile Leu Thr Leu Phe Leu
87              260             265             270
89  Asp Ile Asn Gly Val Gly Thr Leu Ile Trp Ile Ser Phe Ile Pro Leu
90          275             280             285
92  Val Ile Leu Leu Cys Val Gly Thr Lys Leu Glu Met Ile Ile Met Glu
93      290             295             300
95  Met Ala Leu Glu Ile Gln Asp Arg Ala Ser Val Ile Lys Gly Ala Pro
96  305             310             315             320
98  Val Val Glu Pro Ser Asn Lys Phe Phe Trp Phe His Arg Pro Asp Trp
99              325             330             335
101 Val Leu Phe Phe Ile His Leu Thr Leu Phe Gln Asn Ala Phe Gln Met
102             340             345             350
104 Ala His Phe Val Trp Thr Val Ala Thr Pro Gly Leu Lys Lys Cys Tyr
105         355             360             365
107 His Thr Gln Ile Gly Leu Ser Ile Met Lys Val Val Val Gly Leu Ala
108         370             375             380
110 Leu Gln Phe Leu Cys Ser Tyr Met Thr Phe Pro Leu Tyr Ala Leu Val
111 385             390             395             400
113 Thr Gln Met Gly Ser Asn Met Lys Arg Ser Ile Phe Asp Glu Gln Thr
114             405             410             415
116 Ser Lys Ala Leu Thr Asn Trp Arg Asn Thr Ala Lys Glu Lys Lys Lys
117             420             425             430
119 Val Arg Asp Thr Asp Met Leu Met Ala Gln Met Ile Gly Asp Ala Thr
120         435             440             445
122 Pro Ser Arg Gly Ser Ser Pro Met Pro Ser Arg Gly Ser Ser Pro Val
123     450             455             460
125 His Leu Leu His Lys Gly Met Gly Arg Ser Asp Asp Pro Gln Ser Ala
126 465             470             475             480
128 Pro Thr Ser Pro Arg Thr Gln Gln Glu Ala Arg Asp Met Tyr Pro Val
129             485             490             495
131 Val Val Ala His Pro Val His Arg Leu Asn Pro Asn Asp Arg Arg Arg
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137 Ser Phe Ser Gln Gly
138     530
142 <210> SEQ ID NO: 2
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RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/722,377   TIME: 14:19:20

Input Set : A:\620_58.app
Output Set: N:\CRF3\05092002\I722377.raw

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144 <212> TYPE: DNA
145 <213> ORGANISM: Hordeum vulgare
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149 gcggtggtct tcgccgccat ggtgctcgtg tccgtcctca tggaacacgg cctccacaag 120
150 ctcggccatt ggttccagca ccggcacaag aaggccctgt gggaggcgct ggagaagatg 180
151 aaggcggagc tcatgctggt gggcttcata tccctgctcc tcatcgtcac gcaggacccc 240
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153 ggcaccgagg gccgcaagcc cagcaagtac gttgactact gcccggaggg caaggtggcg 360
154 ctcatgtcca cgggcagctt gcaccagctg cacgtcttca tcttcgtgct cgcggtcttc 420
155 catgtcacct acagcgtcat caccatagct ctaagccgtc tcaaaatgag aacatggaag 480
156 aaatgggaga cagagaccac ctccttggaa taccagttcg caaatgatcc tgcacggttc 540
157 cggttcacgc accagacgtc gttcgtgaag cgccacctgg gcctctccag cacccctggc 600
158 atcagatggg tggtggcctt cttcaggcag ttcttcaggt cagtcaccaa ggtggactac 660
159 ctgaccttga gggcaggctt catcaacgcg catttgtcgc aaaacagcaa gttcgacttc 720
160 cacaagtaca tcaagaggtc gatggaggac gacttcaagg tcgtcgtcgg catcagcctc 780
161 ccgctgtggg gtgtggcgat cctcaccctc ttccttgaca tcaatggggt tggcacgctc 840
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163 atcatcatgg agatggccct ggagatccag gaccgggcga gcgtcatcaa ggggggcccc 960
164 gtggtcgagc ccagcaacaa gttcttctgg ttccaccgcc ccgactgggt cctcttcttc 1020
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166 acgcccggct tgaagaaatg ctaccacacg cagatcgggc tgagcatcat gaaggtggtg 1140
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169 accaactggc ggaacacggc caaggagaag aagaaagtcc gagacacgga catgctgatg 1320
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171 tcatcacccg tgcacctgct tcacaagggc atggggcggt cggacgaccc ccagagcgcg 1440
172 cccacctcgc caaggaccca gcaggaggct agggacatgt acccggttgt ggtggcgcac 1500
173 ccggtgcaca gactaaatcc taacgacagg aggaggtccg cctcgtcgtc ggccctcgaa 1560
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180 <213> ORGANISM: Hordeum vulgare
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184 atcgccaaga tatgcatctc cgaggatgcc gccgacgtca tgtggccctg caagcgcggc 120
185 accgagggcc gcaagcccag caagtacgtt gactactgcc cggaggtgag cagcagagcc 180
186 cggaccagca gcttcacgat gatgaagaaa tcaataccga actttttctt gttttcttct 240
187 gattgtcgtc ttggcttggc ttaattggtg tgtgtgtgtg tgtttgcagg gcaaggtggc 300
188 gctcatgtcc acgggcagct tgcaccagct gcacgtcttc atcttcgtgc tcgcggtctt 360
189 ccatgtcacc tacagcgtca tcaccatagc tctaagccgt ctcaaagtga gcctttgctt 420
190 cttcttcttc ttcttttacc gcacgtctgt ctgtcaggcg tacctacctg ttcatcaggc 480
191 ttgagtaaaa ctgttccata atctgctccg gcataatcct ctcctcctgc agatgagaac 540
192 atggaagaaa tgggagacag agaccacctc cttggaatac cagttcgcaa atggtcagga 600
193 tcccccactc tgcaatctcc ccttcttcga aaccaaacct gatgatccat ttaaagacgc 660
194 aggcacgatc agagtgagtg aactgatgta tgttcatttt ttgtgtcctt tcagatcctg 720
195 cacggttccg gttcacgcac cagacgtcgt cgtgaagcg ccacctgggc ctctccagca 780
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RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/722,377   TIME: 14:19:20

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Output Set: N:\CRF3\05092002\I722377.raw

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198 gtggccttct tcaggcagtt cttcaggtca gtcaccaagg tggactacct gaccttgagg 960
199 gcaggcttca tcaacgtacg tgcctcccct tctagctccg ccattgctgc cgcgatgtag 1020
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201 attctgcgca ggcgcatttg tcgcaaaaca gcaagttcga cttccacaag tacatcaaga 1140
202 ggtcgatgga ggacgacttc aaggtcgtcg tcggcatcag gtacgttcca ttccttcctc 1200
203 tgcaccacac cacaccccat ggatagattt taacaattgc tgtcaggttc cacatgataa 1260
204 caatatacta tgaacttggt ctttgctcct tgtccttgca cgatcatgac acatttggcc 1320
205 tgttttcgca gcctcccgct gtggggtgtg gcgatcctca ccctcttcct tgacatcaat 1380
206 ggtatggacc ttctcctctc cggtttctct attgctttgc agctaaataa aacacttgca 1440
207 attcgtctcg tgatcaccgc tcatttttca accatttctt tttctactca taggggttgg 1500
208 cacgctcatc tggatttctt tcatccctct cgtggtaagt gcagatttct ccatcgaaag 1560
209 caacagcaaa cccaatttga tcgcaatgga aacccacacc taatattaac tcaaaatgtc 1620
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212 tggtcgagcc cagcaacaag ttcttctggt tccaccgccc cgactgggtc ctcttcttca 1800
213 tacacctgac gttgttccag aacgcgtttc agatggcgca ttttgtgtgg acagtggtac 1860
214 gccaccgatg aacttgtcag ttaacatggg tgtcaaggca ccgagtgccg ctgatgaact 1920
215 gctctgacgg agatttactt gtgttgtagg ccacgcccgg cttgaagaaa tgctaccaca 1980
216 cgcagatcgg gctgagcatc atgaaggtgg tggtggggct agctctccag ttcctctgca 2040
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227 <222> LOCATION: (4, 27, 66, 119, 136, 152, 155, 192)
228 <223> OTHER INFORMATION: n is a or g or c or t
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (213, 241, 243, 246, 250, 456)
233 <223> OTHER INFORMATION: n is a or g or c or t
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W--> 238 gatgccatcg aagaanaagc agcaagtggt cnccngtcct tggccggcgc cggcggcggg 180
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W--> 240 ncnatnactn atttaactat aattgatttt tcttgggttt tctgcagggc aaggtggcgc 300
241 tgatgtcggc aaagagcatg caccagctgc acattttcat cttcgtgctc gccgtgttcc 360
242 atgttaccta ctgcatcatc accatgggtt tagggcgcct caaagtgagt ttgtcgttct 420
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244 tttcgacaag aaacccaatt tattaatttg ccagttaaat atataataat tgatctttct 540
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248 tcacgattca ggttcacgca tcagacgtcg ttcgtgaagc ggcatctggg atcattctca 780
249 agcacccctg ggctcagatg gatcgtgagt tatcaatctc cgaatacatg cttgttttt 840
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RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/722,377   TIME: 14:19:20

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253 ttcaacattg atgatgcaaa cagaagacca ggtttttttt ttccgagttg tgcattgaag 1080
254 ttaatggttt tagcttcttc tcttttgcag gcgccatttg tcgcagaata gcaagttcga 1140
255 cttccacaaa tacatcaaga ggtctttgga ggacgacttc aaagttgtcg ttggcatcag 1200
256 gtccgtcctc gctttattaa ttataggact cttatattca acattttttt tataaagaaa 1260
257 catatttagt ctccagttgt gtatgtgtat gtggatcttg acacatttgg ctggttttgc 1320
258 agcctccctc tgtggttcgt cggaatcctt gtactcttcc tcgatatcca cggtaatcct 1380
259 tgtcctattt cattcttttt tttactctca aaaccttgtt ctgaattggt cttataatca 1440
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261 cttttgttcc tctcatcgta agagcgaaat ttcccctgtc caaagaaaca gttaacataa 1560
262 ttaattatgc tttaatttat catgaaaatt aatatgatca tataactaat gaacaaacat 1620
263 tcatgtgaat gccaccgttg tctcagatcg tcttgttagt tgggaccaag ctagagatgg 1680
264 tgatcatgga gatggcccaa gagatacagg acagggccac tgtgatccag ggagcaccta 1740
265 tggttgaacc aagcaacaag tacttctggt tcaaccgccc tgactgggtc ttgttcttca 1800
266 tacacctgac actcttccca tgtacatgtt taaaaccgac ggacggatcg atcgatcacc 1860
267 agaacgcatt ttcagatggc gcattcgtat ggactatggt gtgtatgcta cttgcttagt 1920
268 tgttgccatt atcagttctt aagcaaatta agtgtgatgc atgcactgac taatgagaca 1980
269 aaaaatgaca cagcttgttc atcgatctgg ttgttttgtg tgtgacaggc aacacctggt 2040
270 ctgaagaaat gcttccatga aaatatttgg ctgagcatcg tggaagtcat tgtggggatc 2100
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277 <212> TYPE: DNA
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283 gagggccgca agcccagcaa gtacgttgac tactgcccgg aggtgagcag cagagcccgg 180
284 accagcagct tcacgatgat gaagaaatca ataccgaact ttttcttgtt ttcttctgat 240
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286 catgtccacg ggcagcttgc accagctgca cgtcttcatc ttcgtgctcg cggtcttcca 360
287 tgtcacctac agcgtcatca ccatagctct aagccgtctc aaagtgagcc tttgcttctt 420
288 cttcttcttc ttttaccgca cgtctgtctg tcaggcgtac ctacctgttc atcaggcttg 480
289 agtaaaactg ttccataatc tgctccggca taatcctctc ctcctgcaga tgagaacatg 540
290 gaagaaatgg gagacagaga ccacctcctt ggaataccag ttcgcaaatg gtcaggatcc 600
291 cccactctgc aatctcccct tcttcgaaac caaacctgat gatccattta aagacgcagg 660
292 cacgatcaga gtgagtgaac tgatgtatgt tcattttttg tgtcctttca gatcctgcac 720
293 ggttccggtt cacgcaccag acgtcgttcg tgaagcgcca cctgggcctc tccagcaccc 780
294 ctggcatcag atgggtggtg agtttttttag cttcttatct ggcctgtgat gtttgttgcc 840
295 ttgtcaggtg gccttcttca ggcagttctt caggtcagtc accaaggtgg actacctgac 900
296 cttgagggca ggcttcatca acgtacgtgc ctcccccttct agctccgcca ttgctgccgc 960
297 gatgtagcag ccaaattatt ctgcgcaggc gcatttgtcg caaaacagca agttcgactt 1020
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/09/2002
PATENT APPLICATION: US/09/722,377   TIME: 14:19:21

Input Set : A:\620_58.app
Output Set: N:\CRF3\05092002\I722377.raw

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 4,27,66,119,136,152,155,192,213,241,243,246,250,456
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Seq#:29; Xaa Pos. 93
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Seq#:35; Xaa Pos. 10,17,19,47
Seq#:37; Xaa Pos. 6
Seq#:41; Xaa Pos. 29
Seq#:43; Xaa Pos. 14,15
Seq#:45; Xaa Pos. 12,27,51
Seq#:47; Xaa Pos. 3
Seq#:49; Xaa Pos. 2
Seq#:50; N Pos. 68,88,143,181,251,254,328,333,337,341,348,349,356,357,368
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Seq#:56; N Pos. 164

VERIFICATION SUMMARY   DATE: 05/09/2002
PATENT APPLICATION: US/09/722,377   TIME: 14:19:21

Input Set : A:\620_58.app
Output Set: N:\CRF3\05092002\I722377.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:120
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:180
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:240
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:420
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:120
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:180
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:240
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:300
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:360
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:960
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1020
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1440
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1560
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1620
L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1860
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1920
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:2040
L:1556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:16
L:1559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:32
L:1568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:80
L:1616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:16
L:1692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:1756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:80
L:1795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:16
L:1841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:32
L:1850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:48
L:1853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:64
L:1892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:16
L:1898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:32
L:1931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:2010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:16
L:2043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:2082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:2085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:16
L:2091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:48
L:2118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:2186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:60
L:2187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120
L:2188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:180

VERIFICATION SUMMARY　　　　　　　DATE: 05/09/2002
PATENT APPLICATION:　**US/09/722,377**　　TIME: 14:19:21

Input Set : **A:\620_58.app**
Output Set: **N:\CRF3\05092002\I722377.raw**

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L:2189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:240
L:2190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:300
L:2191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:360
L:2212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
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